

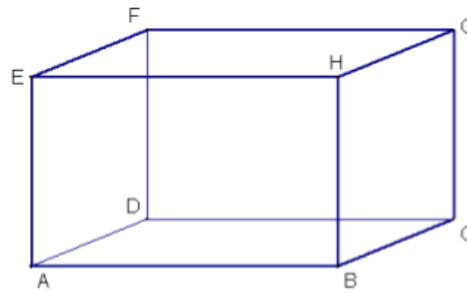
## Ch 3 Test Thursday!

3-1

Parallel

Perpendicular

Skew



3-2

Four Theorems

Match Conclusions

a. All right angles are congruent.

b. If two lines are perpendicular, then they intersect to form four right angles.

c. If two lines intersect to form adjacent congruent angles, then the lines are perpendicular.

d. If two sides of adjacent acute angles are perpendicular, then the angles are complementary.

Oct 21-7:16 AM

3-3

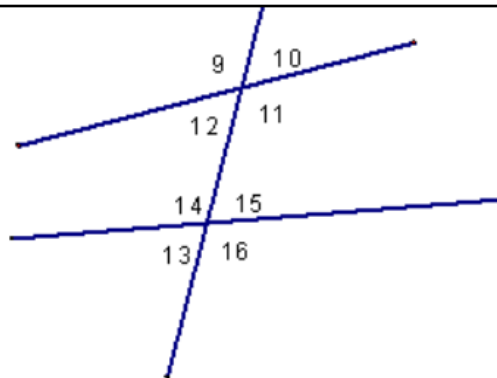
Identify the types of angles

Corresponding

Alternate interior

Alternate exterior

Same-side interior



3-4

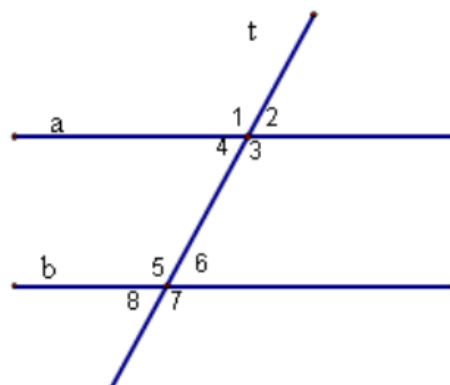
If the lines are parallel, then

Corresponding angles are congruent

Alternate interior angles are congruent

Alternate exterior angles are congruent

Same-side interior angles are supplementary



Oct 21-7:19 AM

3-5

## Converses

Why are the lines parallel?

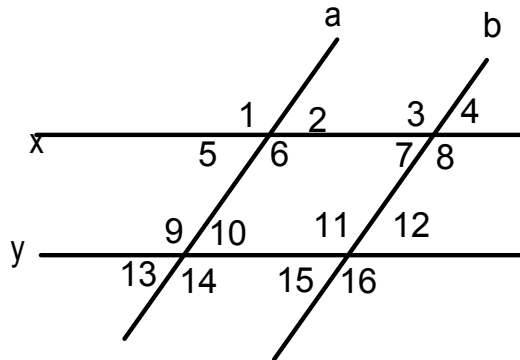
Corresponding angles converse

Alternate interior angles converse

Alternate exterior angles converse

Same-side interior angles converse

Which lines are parallel?



Oct 21-7:22 AM

## Board Work Review Problems

P160-163

#s 7-10,

#13 Match to a-d from box to the right,

#s 15-18,

#s 19-24 answer: A. What type of angle? B. = or supplementary, and C. solve for the angle or x.,

#27 Which converse lets us know why the lines are parallel?

Corresponding angle converse,  
~~Alternate interior angle converse,~~  
 alternate exterior angle converse, or  
 same-side interior angle converse.

P164 #7

P165 #3

a. All right angles are congruent.

b. If two lines are perpendicular, then they intersect to form four right angles.

c. If two lines intersect to form adjacent congruent angles, then the lines are perpendicular.

d. If two sides of adjacent acute angles are perpendicular, then the angles are complementary.

Oct 26-2:52 PM

$$62 + x + 12 = 90$$

$$x + 74 = 90$$

$$x = 16$$

A

Oct 27-12:29 PM

19.

A. corr.

B.     

C.  $99^\circ$

20.

A. att int

B.     

C.  $63^\circ$

Oct 27-12:13 PM

21.

A. S-side

B. Supp

C.  $71^\circ$ 

Oct 26-2:56 PM

22.

A corr

B =

C 122

23.

A alt ext

B =

C 20

Oct 27-12:17 PM

24

$$x - 15 + 55 = 180$$

$$x + 40 = 180$$

$$x = 140$$

Oct 27-12:20 PM